

FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MFL-003 APPLICANT(S): Yu <i>et al.</i> SERIAL NO.: 10/771,739 FILING DATE: February 4, 2004 GROUP: 2123					
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C104	"A Better approach to Midplane Generation Will Keep C-MOLD Users a Step Ahead," <u>C-MOLD News</u> , 8(4) (1996).							
	C105	CUBIT Mesh Generation Environment Volume I: User's Manual, <u>SAND94-1100, Unlimited Release</u> , 5-194 http://sass2527.sandia.gov/SEACAS/CUBIT/Users/Cubitchapter1.html , Chapters 1-2, 4-5, Appendix B (1994).							
	C106	Copy of International Search Report and Written Opinion of the International Searching Authority for International Application No. PCT/US2004/003063, dated January 7, 2005.							
EXAMINER <i>Thompson</i>					DATE CONSIDERED 6/15/07				

3151986-1



IPW

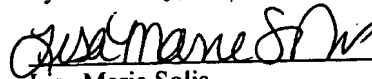
PATENT
Attorney Docket No.: MFL-003
(5407/9)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Yu *et al.* CONFIRMATION NO.: 4824
SERIAL NO.: 10/771,739 GROUP NO.: 2123
FILING DATE: February 4, 2004 EXAMINER: Not yet assigned
TITLE: APPARATUS AND METHODS FOR PERFORMING PROCESS
SIMULATION USING A HYBRID MODEL

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 28th day of January, 2005.


Lisa Marie Solis

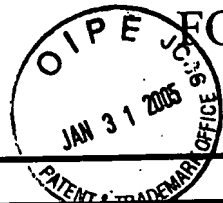
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

1. Transmittal Form (1 page);
2. Supplemental Information Disclosure Statement (2 pages);
3. Form PTO-1449 (1 page);
4. Copy of cited references C104-C106; and
5. Return Receipt Postcard.

TRANSMITTAL FORM



Application Serial Number	10/771,739
Filing Date	February 4, 2004
First Named Inventor	Yu
Group Art Unit	2123
Examiner Name	Not yet assigned
Attorney Docket No.	MFL-003
Patent No.	Not applicable
Issue Date	Not applicable

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] <input type="checkbox"/> Petition for Extension of Time <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations C104-C106 <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input type="checkbox"/> Additional Enclosure (please identify below)
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CORRESPONDENCE ADDRESS

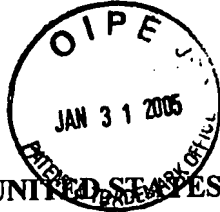
Direct all correspondence to: Patent Administrator
 Testa, Hurwitz & Thibault, LLP
 High Street Tower
 125 High Street
 Boston, MA 02110
 Tel. No.: (617) 248-7000
 Fax No.: (617) 248-7100

SIGNATURE BLOCK

Date: January 28, 2005
 Reg. No.: 53,002
 Tel. No.: (617) 310-8471
 Fax No.: (617) 248-7100

Respectfully submitted,

William R. Haulbrook
 William R. Haulbrook, Ph.D.
 Attorney for Applicants
 Testa, Hurwitz & Thibault, LLP
 High Street Tower
 125 High Street
 Boston, MA 02110



PATENT
Attorney Docket No. MFL-003
5407/9

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Yu et al. CONFIRMATION NO.: 4824
SERIAL NO.: 10/771,739 GROUP NO.: 2123
FILING DATE: February 4, 2004 EXAMINER: Not yet assigned
TITLE: Apparatus and Methods for Performing Process Simulation Using a Hybrid Model

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the non-patent publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

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- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

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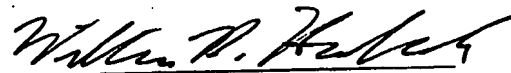
It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



William R. Haulbrook
Attorney for Applicants
Testa, Hurwitz, & Thibeault, LLP
High Street Tower
125 High Street
Boston, Massachusetts 02110

Date: January 28, 2005
Reg. No. 53,002

Tel. No.: (617) 310-8427
Fax No.: (617) 248-7100



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U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
	A40.	5,677,846	10/14/1997	Kumashiro					
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C107.	Cignoni <i>et al.</i> , "Multiresolution Representation and Visualization of Volume Data," <u>IEEE Transactions on Visualization and Computer Graphics</u> , Vol. 3, No. 4, pp. 352-369 (1997).							
	C108.	Shephard <i>et al.</i> , "Parallel Automatic Adaptive Analysis," <u>Parallel Computing</u> , Vol. 23, pp. 1327-1347 (1997).							
	C109.	Yang, H.Q. <i>et al.</i> , "Time-Accurate, 3-D Computation of Wire Sweep During Plastic Encapsulation of IC Components" <u>IEEE Electronic Components and Technology Conference</u> , pp. 158-167 (1997).							
EXAMINER <i>Angela Jones</i>					DATE CONSIDERED <i>6/15/07</i>				



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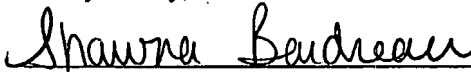
PATENT
Attorney Docket No. MFL-003
(101347/158502)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Yu *et al.* CONFIRMATION NO.: 4824
SERIAL NO.: 10/771,739 GROUP NO.: 1732
FILING DATE: February 4, 2004 EXAMINER: Not yet assigned
TITLE: APPARATUS AND METHODS FOR PERFORMING PROCESS
SIMULATION USING A HYBRID MODEL

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

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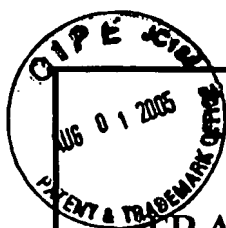

Shawna Boudreau

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith is/are:

1. Transmittal Form (1 pg.);
2. Supplemental Information Disclosure Statement (2 pgs.);
3. Form PTO-1449 (1 pg.);
4. Copies of cited references C107-C109; and
5. Return receipt postcard.

2554379



TRANSMITTAL FORM

Application Serial Number	10/771,739
Filing Date	February 4, 2004
First Named Inventor	Yu
Group Art Unit	1732
Examiner Name	Not yet assigned
Attorney Docket No.	MFL-003
Patent No.	Not applicable
Issue Date	Not applicable

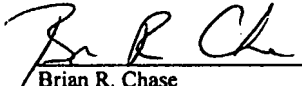
ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]	<input type="checkbox"/> Formal Drawing(s)	<input type="checkbox"/> Appeal Brief (in triplicate)
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal	<input type="checkbox"/> Status Inquiry
<input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of SIDS Citations (C107-C109)	<input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application	<input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8
	<input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> Additional Enclosure(s) (please identify below)
	<input type="checkbox"/> CD(s) for large table or computer program	
	<input type="checkbox"/> Amendment After Allowance	
	<input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	

CORRESPONDENCE ADDRESS

Direct all correspondence to: Patent Administrator
Goodwin Procter LLP
Exchange Place
Boston, MA 02109
Tel. No.: (617) 570-1000
Fax No.: (617) 523-1231
Customer No. 051414

SIGNATURE BLOCK

Respectfully submitted,

Brian R. Chase
Attorney for Applicants
Goodwin Procter LLP
Exchange Place
Boston, MA 02109

Date: July 29, 2005
Reg. No. 56,663
Tel. No.: (617) 570-1053
Fax No.: (617) 523-1231



PATENT
Attorney Docket No. MFL-003 (101347/158502)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Yu *et al.* CONFIRMATION NO.: 4824
SERIAL NO.: 10/771,739 GROUP NO.: 1732
FILING DATE: February 4, 2004 EXAMINER: Not yet assigned
TITLE: APPARATUS AND METHODS FOR PERFORMING PROCESS
SIMULATION USING A HYBRID MODEL

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- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
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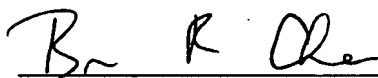
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Date: July 29, 2005
Reg. No. 56,663

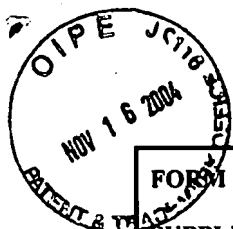
Tel. No.: (617) 570-1053
Fax No.: (617) 523-1231

LIBC/2550009.1

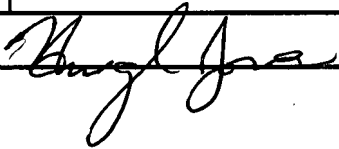
Respectfully submitted,



Brian R. Chase
Attorney for Applicants
Goodwin Procter, LLP
Exchange Place
Boston, Massachusetts 02109



Express Mail Mailing Label No.: EL988704616US
Sheet 1 of 1

FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MFL-003 APPLICANT(S): Yu <i>et al.</i> SERIAL NO.: 10/771,739 FILING DATE: February 4, 2004 GROUP: 2123					
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FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
	B13	09262887	10/07/1997	JP				Y	Y (Abstract Only)
	B14	10138312	05/26/1998	JP				Y	Y (Abstract Only)
	B15	10156885	06/16/1998	JP				N	Y (Abstract Only)
	B16	2002219739	08/06/2002	JP				N	Y (Abstract Only)
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C98	Guo <i>et al.</i> , "Numerical Simulation of Injection Molding of Semicrystalline Thermoplastics," <u>Antec, Plastic the Lone Star 2001</u> , 1:1-5 (2001).							
	C99	Guo <i>et al.</i> , "On the Prediction of Crystallinity Distribution in Injection Molded Semi-Crystalline Thermoplastics," <u>Antec 2000, Plastic the Magical Solution</u> , 1:1-5 (2000).							
	C100	Liu, "Isothermal Flow Simulation of Liquid Composite Molding," <u>Composites, Part A</u> 31:1295-1302 (2000).							
	C101	Musler <i>et al.</i> , "Computer Simulation of the Film Blowing Process Incorporating Crystallization and Viscoelastic Effects," <u>Antec</u> , 3:3241-3245 (2003).							
	C102	Pouzada <i>et al.</i> , "The Use of Morphology Data in the Design of Injection Moulded Flat Products," <u>Antec, Plastics Bridging the Millennium</u> , 3:1-5 (1999).							
	C103	International Search Report for International Application No. PCT/US2004/003063, dated September 6, 2004 (4 pages).							
EXAMINER						DATE CONSIDERED			

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6/15/07



11-17-04

IFW

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PATENT
Attorney Docket No. MFL-003
5407/9

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Yu et al. CONFIRMATION NO.: 4824
SERIAL NO.: 10/771,739 GROUP NO.: 2123
FILING DATE: February 4, 2004 EXAMINER: Not yet assigned
TITLE: Apparatus and Methods for Performing Process Simulation Using a Hybrid Model

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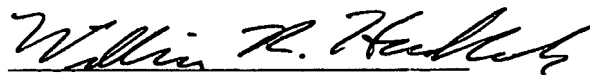
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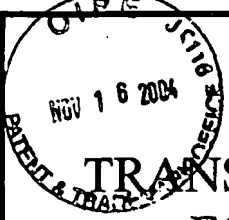
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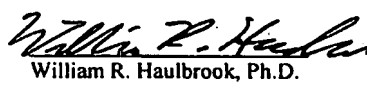
William R. Haulbrook
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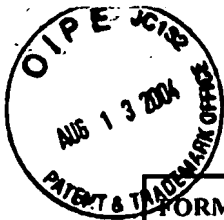
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	First Named Inventor	Yu
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	Examiner Name	Not yet assigned
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	Patent No.	Not applicable
	Issue Date	Not applicable

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] <input type="checkbox"/> Petition for Extension of Time <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations B13-B16 and C98-C103 <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input type="checkbox"/> Additional Enclosure (please identify below)

CORRESPONDENCE ADDRESS	SIGNATURE BLOCK
Direct all correspondence to: Patent Administrator Testa, Hurwitz & Thibault, LLP High Street Tower 125 High Street Boston, MA 02110 Tel. No.: (617) 248-7000 Fax No.: (617) 248-7100	Respectfully submitted,  Date: November 16, 2004 Reg. No.: 53,002 Tel. No.: (617) 310-8471 Fax No.: (617) 248-7100 William R. Haulbrook, Ph.D. Attorney for Applicants Testa, Hurwitz & Thibault, LLP High Street Tower 125 High Street Boston, MA 02110



FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MFL-003

APPLICANT(S): Yu *et al.*

SERIAL NO.: 10/771,739

FILING DATE: February 4, 2004

GROUP: 2123

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	3,977,255	8-31-1976	Groleau et al.			
	A2	4,387,655	06-14-1983	Chaiken			
	A3	4,504,920	03-12-1985	Mickowski			
	A4	4,534,003	08-06-1985	Manziona			
	A5	4,641,270	02-03-1987	Lalloz et al.			
	A6	4,676,664	06-30-1987	Anderson et al.			
	A7	4,868,751	09-19-1989	Dogru et al.			
	A8	4,989,166	01-29-1991	Akasaka et al.			
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EXAMINER	<i>Angela Jones</i>				DATE CONSIDERED	<i>8/15/07</i>	

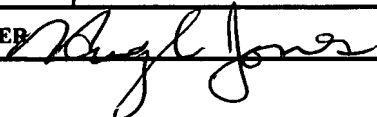
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	A26	5,760,779	06-02-1998	Yamashita et al.				
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	B1	AU-A-27152/95	02-15-1996	AU			N	Y
	B2	721978	07-20-2000	AU			N	Y
	B3	0 525 198 A1	02-03-1993	EP			N	Y
	B4	0 698 467 A1	02-28-1996	EP			N	Y
	B5	0 747 198 A2	12-11-1996	EP			N	Y
EXAMINER <i>David Jones</i>				DATE CONSIDERED <i>6/15/07</i>				

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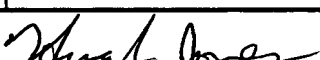
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OTHER ART, JOURNAL ARTICLES, ETC.		
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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C88	Wassner et al., "Shear-Induced Crystallization of Polypropylene Melts," <u>Proc. XIII Congr. Rheol.</u> , 1:83-85 (2000).	
	C89	Wedgewood, et al., "From Molecular Models to the Solution of Flow Problems," <u>Ind. Eng. Chem. Res.</u> , 27:1313-1320 (1988).	
	C90	Yokoi et al., "Measurement of Melt Temperature Profiles During Filling and Packing Processes Using a New Integrated Thermocouple Sensor," University of Tokyo and Yamaha Motor Co., Ltd., 7 pgs. (1992).	
	C91	Young et al., "Analysis of Resin Injection Molding in Molds with Preplaced Fiber Mats II: Numerical Simulation and Experiments of Mold Filling," <u>Polymer Composites</u> , 12(1):30-38 (1991).	
	C92	Yu et al., "A Hybrid 3D/2D Finite Element Technique for Polymer Processing Operations," <u>Polymer Engineering and Science</u> , 39(1):44-54 (1999).	
	C93	Zheng et al., "Predicting Warpage of Injection Molded Fiber-Reinforced Plastics," <u>Journal of Thermoplastic Composite Materials</u> , 9:90-106 (1996).	
	C94	Zheng et al., "Thermoviscoelastic Simulation of Thermally and Pressure-Induced Stresses in Injection Moulding for the Prediction of Shrinkage and Warpage for Fibre-reinforced Thermoplastics," <u>Journal of Non-Newtonian Fluid Mechanics</u> , 84:159-190 (1999).	
	C95	Ziabicki, "Crystallization of Polymers in Variable External Conditions. II. Effects of Cooling in the Absence of Stress and Orientation," <u>Colloid Polym. Sci.</u> , 274(8):705-716 (1996).	
	C96	Ziabicki, "The Mechanisms of Neck-Like Deformation in High-Speed Melt Spinning. 2. Effects of Polymer Crystallization," <u>J. Non-Newtonian Fluid Mech.</u> , 30:157-168 (1988).	
	C97	Zuidema, et al., "Development and Validation of a Recoverable Strain-Based Model on Flow-Induced Crystallization of Polymers," <u>Macromol. Theory Simul.</u> , 10(5):447-460 (2001).	
EXAMINER			DATE CONSIDERED 6/5/07



IFW

PATENT
Attorney Docket No.: MFL-003
(5407/9)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Yu *et al.* CONFIRMATION NO.: 4824
SERIAL NO.: 10/771,739 GROUP NO.: 2123
FILING DATE: February 4, 2004 EXAMINER: Not yet assigned
TITLE: APPARATUS AND METHODS FOR PERFORMING PROCESS
SIMULATION USING A HYBRID MODEL

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 6^m day of August, 2004.


Lisa Marie Solis

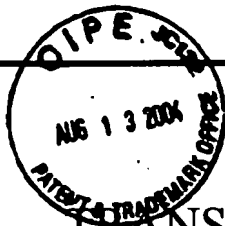
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

1. Transmittal Form (1 pg.);
2. Information Disclosure Statement (2 pgs.);
3. Form PTO-1449 (9 pgs.);
4. Copy of cited references B1-B12 and C1-C97; and
5. Return Receipt Postcard.

3103910-1



TRANSMITTAL FORM

Application Serial Number	10/771,739
Filing Date	February 4, 2004
First Named Inventor	Yu
Group Art Unit	2123
Examiner Name	Not yet assigned
Attorney Docket No.	MFL-003
Patent No.	Not applicable
Issue Date	Not applicable

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets _____]	<input type="checkbox"/> Formal Drawing(s)	<input type="checkbox"/> Appeal Brief (in triplicate)
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal	<input type="checkbox"/> Status Inquiry
<input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations B1-B12 and C1-C97	<input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application	<input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8
	<input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> Additional Enclosure (please identify below)
	<input type="checkbox"/> CD(s) for large table or computer program	
	<input type="checkbox"/> Amendment After Allowance	
	<input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	

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SIGNATURE BLOCK

Date: August 6, 2004
Reg. No.: 53,002
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Respectfully submitted,

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PATENT
Attorney Docket No. MFL-003
5407/9

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Yu et al. CONFIRMATION NO.: 4824
SERIAL NO.: 10/771,739 GROUP NO.: 2123
FILING DATE: February 4, 2004 EXAMINER: Not yet assigned
TITLE: Apparatus and Methods for Performing Process Simulation Using a Hybrid Model

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed. In addition, Applicants wish to inform the Examiner about the following patent applications, and the contents of their file wrappers, including all Office actions issued therein.

1. U.S.S.N. 10/791,218, entitled "Apparatus and Methods For Predicting Properties of Processed Material," filed on March 2, 2004.
2. U.S.S.N. 09/404,932, entitled "Method and Apparatus for Modeling Injection of a Fluid in a Mold Cavity," filed on September 24, 1999.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or

- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

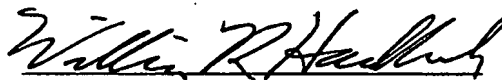
It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



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Date: August 6, 2004
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